HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80527-2400

COMMISSIONER FOR PATENTS Washington, D.C. 20231

PATENT APPLICATION

ATTORNEY DOCKET NO. ___ 10006728 -1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):

Kevin Collins et al

C nfirmation No.:

Application No.:

Examiner:

Filing Date:

Group Art Unit:

Title:

Storage Device Performance Monitor

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Technology Center 2100

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INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is submitted:

(x) under 37 CFR 1.97(b), or (Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)

() under 37 CFR 1.97(c) together with either a:

() Statement under 37 CFR 1.97(e), or

() a \$180.00 fee under 37 CFR 1.17(p), or

(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs

() under 37 CFR 1.97 (d) together with a:

() Statement under 37 CFR 1.97(e), and

() a petition under 37 CFR 1.97(d)(2), and

() a \$180.00 petition fee set forth in 37 CFR 1.17(p).

(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37°CFR 1.56.

() A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. EL 795260515 US

Date of Deposit 9-27-01

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington, D.C. 20231.

Typed Name:Donna Kraft

Respectfully submitted,

Kevin Collins et al

T. Grant Ritz

Attorney/Agent for Applicant(s)

Reg. No. 39,819

Date: 9,27-1

Telephone No.: (970) 898-0697

Rev 06/01 (IDSXML)

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	1A	5,506,955	04-09-96	Ch	en, et al.		395	183.02			
	18	5,566,317	10-15-96	Tre	iber, et al.		395	444			

''	3,300,317	10-15-90	Treiber, et al.	395	444
1C	5,684,945	11-04-97	Chen, et al.	395	182.18
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FOREIGN PATENT DOCUMENTS

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 1L							
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	10	"Making Sure Disk Performance Statistics	are Collected", Microsoft Corporation, 2000, 2 pages.
	1R	"Monitoring Hard Disk Performance" i386,	, Dublin, Ireland, 2001, 2 pages.
	18	"Using th Performance Monitor", Microso	oft Corporation, 2000, 2 pages.
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2	R "Efficient, Rea Serial No. 09/	al-Time Management of 589,144 filed June 7,	of Storage Resources", U., , 2000.	S. Patent Applica	ation of	Duggan, et al.,	
	S "Hard Disk Dr	ives", IBM Corporatio	n, published to the Intern	et at least as earl	y as Se	ptember 17,	
2:	2001, 5 pages	S.					

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	40	"Data Lifeguard Internet at least	Online Diagnostics as early as Septen	s S.M.A.R.T. Test", Westenber 28, 2000, 2 pages.	rn Digital Corpo	ration, p	ublished to tl	he
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